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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/727,163		12/02/2003	Simon Robert Walmsley	PEA03US	6706	
24011	7590	11/03/2006		EXAM	EXAMINER	
SILVERBE	ROOK RE	ESEARCH PTY L	TD	UHLENHAK	E, JASON S	
393 DARLII	NG STRE	ET	•			
BALMAIN,	NSW 2	041		ART UNIT	PAPER NUMBER	
AUSTRALI	Α			2853		

DATE MAILED: 11/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/727,163	WALMSLEY ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Jason Uhlenhake	2853				
Period	The MAILING DATE of this communication app for Reply	ears on the cover sheet with the c	orrespondence address				
WH - Ex af - If - Fa Al	HORTENED STATUTORY PERIOD FOR REPLY IICHEVER IS LONGER, FROM THE MAILING DA tensions of time may be available under the provisions of 37 CFR 1.13 ter SIX (6) MONTHS from the mailing date of this communication. NO period for reply is specified above, the maximum statutory period waillure to reply within the set or extended period for reply will, by statute, by reply received by the Office later than three months after the mailing treed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)[∑	Responsive to communication(s) filed on 24 Au	ugust 2006.					
2a)[☐ This action is FINAL 2b)⊠ This	action is non-final.					
3)[3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispos	ition of Claims						
5)[6)[≥ 7)[Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-4 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or						
Application Papers							
9)[10)[The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Ex	epted or b) objected to by the liderawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachm	ent(s)						
1) No 2) No 3) Inf	tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO-948) ormation Disclosure Statement(s) (PTO/SB/08) per No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

Art Unit: 2853

DETAILED ACTION

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 1 is provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1 of copending Application No. 10/727,245 in view of claim 1 of copending Application No. 10/854,512.

This is a <u>provisional</u> obviousness-type double patenting rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 10/727,163 Page 3

Art Unit: 2853

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Teshigawara et al (U.S. Pub. 2002/0171709).

Teshigawara discloses:

- regarding claim 1, a printer controller (200) for supplying dot data to a printhead in a predetermined order comprising at least first and second printhead modules (Figure 4), each comprising a plurality of printing nozzles spanning a respectively different printhead width (Figure 4; Paragraph 0050), the printhead modules being disposed adjacent to each other such that a printing width of the printhead is wider than each of the respective printing widths of the printhead modules
- order and time supply (predetermined processing) of the dot data to the printhead modules such that the difference in the printing widths (Figure 4) of the printhead modules and any relative displacement between the printing nozzles of the printhead modules (Paragraphs 0048-0049) in a direction normal to the printhead printing width are at least partially compensated for (Controller 200; Paragraphs 0037, 0041, 0043)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/727,163 Page 4

Art Unit: 2853

Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Teshigawara et al (U.S. Pub. 2002/0171709) Haflinger (U.S. Pub. 2002/0180816) in view of Haflinger (U.S. Pub. 2002/0180816) and Tayuki (U.S. Pub. 2002/0113985).

Teshigawara does not disclose expressly the following:

- **regarding claim 2,** configurable to provide compensation for any of a plurality of different amounts of the relative displacement
- regarding claim 3, printer controller being controllable to introduce a relative delay into the dot data supplied to one or more of the rows, thereby to provide the compensation; the printhead modules comprises a plurality of parallel rows of the printing nozzles, the printhead being configured such that each of the rows of each printhead module has a corresponding row in each of the other printhead modules
- regarding claim 4, the printhead is configured to print the dots at a predetermined spacing in a direction in which print media is supplied for printing, wherein the delay introduced by the printer controller equates to an integral multiple of the spacing during printing

Haflinger discloses the following:

- regarding claim 2, configurable to provide compensation for any of a plurality of different amounts of the relative displacement (Figures 4 10; Paragraphs 0039, 0041 0042), for the purpose of improving the image quality of an ink jet printer
- regarding claim 3, printer controller being controllable to introduce a relative delay into the dot data supplied to one or more of the rows, thereby to provide

Application/Control Number: 10/727,163 Page 5

Art Unit: 2853

the compensation (Paragraph 0043), for the purpose of improving the image quality of an ink jet printer

- **regarding claim 4,** the printhead is configured to print the dots at a predetermined spacing in a direction in which print media is supplied for printing, wherein the delay introduced by the printer controller equates to an integral multiple of the spacing during printing (Figures 3 – 10; Abstract; Paragraphs 0038, 0040 – 0042), for the purpose of improving the image quality of an ink jet printer

Tayuki discloses:

- regarding claim 3, the printhead modules comprises a plurality of parallel rows of the printing nozzles, the printhead being configured such that each of the rows of each printhead module has a corresponding row in each of the other printhead modules (Figure 3; Paragraph 0160), for the purpose of adjusting misalignment of recording positions.

At the time the invention was made it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of Tayuki and Haflinger into the device of Teshigawara, for the purpose of adjusting misalignment of the recording positions and improving the image quality of an ink jet printer.

Application/Control Number: 10/727,163

Art Unit: 2853

Response to Arguments

Applicant's arguments with respect to claims 1-4 have been considered but are moot in view of the new ground(s) of rejection. Please see the above rejections regarding Teshigawara et al (U.S. Pub. 2002/0171709) and Teshigawara et al Haflinger (U.S. Pub. 2002/0180816) in view of Haflinger (U.S. Pub. 2002/0180816) and Tayuki (U.S. Pub. 2002/0113985). They disclose printheads having different printing widths, and the printer controller is configured to order and time the supply of dot data to the modules in order to compensate for both this difference and any relative displacement between the nozzles of the printhead modules

Art Unit: 2853

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Uhlenhake whose telephone number is (571) 272-5916. The examiner can normally be reached on Monday - Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JSU

October 26, 2006

STEPHEN MEIER
SUPERVISORY PATENT EXAMINER